

Industrial PhD Student in Bioinformatics and AI for Data-Driven Epigenetic Research

Predict Me is an innovative startup founded in 2022 by Professor Mika Gustafsson (Bioinformatics/AI) and Professor Maria Lerm (Microbiology/Epigenetics). Our core activities involve advanced analysis of epigenetic data and the development of data-driven AI-based health indicators. We now offer a unique opportunity to pursue an industrial PhD in Bioinformatics at Linköping University (Department of Physics, Chemistry, and Biology – IFM), in close collaboration with the Gustafsson research group and Predict Me.

About the DDLS PhD position

Data-driven life science (DDLS) uses data, computational methods, and artificial intelligence to study biological systems and processes at all levels—from molecular structures and cellular processes to human health and global ecosystems. The SciLifeLab and Wallenberg National Program for Data-Driven Life Science (DDLS) aims to recruit and train the next generation of data-driven life scientists and create globally leading computational and data science capabilities in Sweden. The program is funded with a total of 3.7 billion SEK (about 290 MUSD) over 12 years by the Knut and Alice Wallenberg (KAW) Foundation.

In 2025, the DDLS Research School will expand with the recruitment of 19 academic and 7 industrial PhD students. Over the course of the DDLS program, more than 260 PhD students and 200 postdocs will be part of the Research School. The DDLS program has four strategic research areas: cell and molecular biology, evolution and biodiversity, precision medicine and diagnostics, and epidemiology and biology of infection.

For more information, please see [SciLifeLab's DDLS website](#).

Research area: Data-driven precision medicine and diagnostics

The current PhD position will focus on **data-driven precision medicine and diagnostics**, which covers data integration, analysis, visualization, and data interpretation for patient stratification, discovery of biomarkers for disease risks, diagnosis, drug response, and monitoring of health. The research will utilize existing strong assets in Sweden and abroad, such as molecular data (e.g., epigenomics), imaging, electronic healthcare records, longitudinal patient and population registries, and biobanks.

About the position

As an industrial PhD student, you will play a central role in an interdisciplinary research project developing AI-driven models and bioinformatics tools to analyze epigenetic data. Tasks include advanced bioinformatic analyses, machine learning, and creating innovative automated AI-based reports tailored to our diverse customers in healthcare, life sciences, and related sectors.

You will be employed by Predict Me, with long-term employment prospects, while simultaneously pursuing your doctoral education at IFM, Linköping University, as part of the DDLS program.

Responsibilities

- Develop and apply AI and machine learning methods to analyze large-scale epigenetic datasets.
- Actively participate in research and the development of the company's core product: automated AI reports.
- Collaborate closely with researchers at the Gustafsson group at IFM, Linköping University.
- Contribute to scientific publications and disseminate research findings.
- Interact and communicate with clients, providing expertise in data analysis and interpretation.

Qualifications

- A Master's degree (or equivalent) in Bioinformatics, Computer Science, Biotechnology, Mathematics, or related fields.
- Strong knowledge and practical experience in bioinformatics and machine learning/AI.
- Programming skills in Python or R.
- Strong ability to work independently and in interdisciplinary teams.
- Interest in interacting with clients and engaging actively in product development.
- Excellent communication skills in English (both spoken and written).

Meriting

- Previous experience analyzing epigenetic or molecular omics data.
- Experience working in industry or startup environments.

What we offer

- A stimulating environment combining academic excellence with an entrepreneurial mindset.
- Opportunity to participate in the DDLS program—Sweden's largest initiative in data-driven life science.
- A unique combination of industrial experience and academic training.

- Excellent opportunities for personal and professional growth and networking both nationally and internationally.

Employment conditions

Employment will be provided by Predict Me with the intention that the successful candidate will be registered as a PhD student at Linköping University no later than October 2025. The recruitment process will follow DDLS guidelines and will be jointly conducted by Predict Me and Linköping University.

Application

Your application must include the following documents:

- A personal cover letter describing your motivation and relevant experience
- Curriculum Vitae (CV)
- Copies of academic certificates and diplomas
- Contact information for at least two professional references

Please send your complete application via email no later than **April 22, 2025**, to either Professor Mika Gustafsson (mika.gustafsson@liu.se) or Professor Maria Lerm (maria.lerm@predictme.se).

For questions or additional information regarding this position, feel free to contact Professors Gustafsson or Lerm at the email addresses provided above.

The future of life science is data-driven. Will you be part of that change? Join us in this unique program!